

Project Baseline Summary Report

Data Source: **EM CDB**
Operations/Field Office: **Oak Ridge**
Site Summary Level: **Oak Ridge Reservation**
Project **OR-151 / ORR Legacy Waste**

Report Number: **GEN-01b**
Print Date: **3/9/2000**
HQ ID: **0086**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

The Legacy Waste Project consists of treatment storage and disposition of low-level waste (LLW), mixed low level waste (MLLW), hazardous waste, and transuranic (TRU) waste. Oak Ridge's inventory of legacy waste is the highest in the country for LLW (~40% of total), MLLW (~40% of total) and remotely handled TRU (~80% of total).

The legacy waste project is a key element in the critical path of the overall Environmental Management mission in Oak Ridge. The Site Treatment Plan (STP) defines the critical path for MLLW and mixed TRU. The STP has enforceable milestones for the disposition of mixed waste streams. The critical path for LLW is dependent on the issuance of the Programmatic Environmental Impact Statement (PEIS), which will allow access to the disposal sites at Nevada and Hanford. Management of hazardous waste is regulatory driven and must be dispositioned within 1 year of generation. The objective of the ORR Waste Certification Program is to ensure that all waste generated on the ORR is suitable for treatment or disposal at the appropriate on-site or off-site DOE or commercial facility. Legacy Waste on the ORR is managed by Waste types (LLW, MLLW, TRU, Hazardous and Sanitary Industrial), each with a set of subprojects. The goal of each subproject is to eliminate the inventory of stored wastes assigned to that subproject and to reach a point when waste is stored only to accumulate sufficient quantities to facilitate cost effective treatment or disposal. Each waste type project includes a portion of the Waste Information Management System (WIMS). WIMS is used to track the location, status and other critical data associated with each waste container.

Low-Level Waste Disposition

The LLW Subprojects include Solid LLW Disposition, LLW Process Residues Disposition, LLW Special Case Waste Disposition and LLW Storage.

The objectives of Solid LLW is to characterize, treat (as required), and dispose all legacy and newly generated Solid LLW. Solid LLW includes multiple waste streams known as dry active waste, radioactive scrap metal, construction debris, soils, non-regulated chemicals and labpacks, and uranium oxide. Treatment and disposal will be at off-site facilities. Legacy Solid LLW will be characterized to meet waste acceptance criteria for Envirocare, Nevada Test Site, or Hanford LLW Disposal Facilities as appropriate. The generator will characterize newly generated LLW. Dry Active Waste will be shipped to a commercial treatment facility for volume reduction prior to shipment for disposal. All remaining solid LLW will be shipped directly for disposal after characterization, or shipped to an off-site commercial facility for repackaging and characterization prior to shipment for disposal. Several storage areas for LLW are on the critical Path of the ORR. All Solid LLW stored in the K-25 Building Vaults and SWSA 6 Area Facilities at ORNL will be disposed or relocated by the end of FY 2002 to support ER initiatives to remove all LLW from these areas by the end of FY 2002. The Y-12 Old Salvage Yard radioactive scrap metal inventory will be surveyed and recycled or disposed by the end of FY 2002 to support an ER initiative to remediate the soil in the Salvage Yard by the end of FY 2005.

The LLW Process Residues include several waste streams. Wastewater activities include characterization and preparation for shipment to onsite waste water treatment facilities. Containers of organic liquids will be transported to the TSCA Incinerator or other unit for treatment. Sludges and treatment residues will be treated (if needed), transported to and disposed at Envirocare/NTS. Monoliths will be disposed at NTS. Resins and trapping materials will be transported to the disposal facility. Volume Reduction Residues in the K-25 Building will be relocated to the K-1065 Building.

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Other VRR will go directly to disposal.

Special Case waste consists of four elements. The objective of Fissile Waste and Thorium is to characterize and treat legacy fissile LLW and thorium stored at the ETTP on the ORR, transfer the liquid fissile LLW and thorium to an on-site treatment facility for discharge and ship the solid fissile LLW to an off-site disposal facility. The objective of Remote handled special case waste is to identify (including sampling), characterize, repackage/overpack, and certify legacy and newly generated RH Special case waste stored on the ORR, transfer acceptable RH Special case waste to the Interim Waste Management Facility, and ship other RH special case waste to an off-site disposal facility. The objective of classified waste is to work with Defense Programs to accomplish the required demilitarization and sanitation of legacy classified waste stored at the Y-12 Plant and ship the formerly legacy classified waste to an off-site disposal facility. The objective of (contact handled special case waste is to overpack boxes of legacy CH SCW stored at the ORNL on the ORR and ship the boxes to an off-site disposal facility.

The objective of the LLW Storage is to provide safe, compliant and cost efficient storage of LLW. Low-level waste storage operations will initially provide for management of approximately 40 storage facilities on the Oak Ridge Reservation containing a total of approximately 40,000 m3 of inventory consisting of approximately 22,000 containers of waste. As waste is removed from a facility, the facility may be transferred to another program. It is envisioned that the on-site stored inventory volume of LLW at steady state will be less than one year's worth of generation (i.e., less than 7700 m3/year.)

Sanitary/Industrial Waste Disposition

The sanitary/industrial waste activities provide storage, treatment, and disposal for solid and liquid sanitary/industrial wastes generated on the ORR. The sanitary/industrial Waste Integration subproject provides monitoring, integration, and planning associated with waste operation activities that are covered under PBS OR-211 Y-12 Waste Operations. The objective of the Sanitary/Industrial Waste Integration task is to provide monitoring, integration, reporting and long-range and strategic planning for operational activities on the ORR including operation of Landfills IV, V, VI, VII and the Spoil Area, the Sanitary Baler; post-closure care and monitoring of Landfill II and Chemical Disposition Tasks. Also included under Sanitary Waste Disposition is Industrial Chemical Disposition: The process and priorities to identify, characterize, and disposition the populations of non-regulated chemicals and labpacks will be pursued as allowed by funding. Priorities include disposition of 7810A wastes as a stand-alone project in, followed by characterization and disposal of ORNL/ETTP wastes and then Y-12 wastes. Except for small volumes of wastes, which may be suitable for disposal in the on-site landfill, this waste will be managed for off-site disposal as with asbestos or hazardous wastes. Because of the large volume of waste in one location at 7810A, a stand-alone contract will be sought for complete disposition of the wastes in that unit.

Mixed Low Level Waste Disposition

The Mixed Low Level Waste subprojects include MLLW Storage, Balance of Inventory, Broad Spectrum Disposition and MLLW Process Residue Disposition.

The MLLW Storage Subproject provides safe, compliant, and cost effective storage of MLLW on the Oak Ridge Reservation (ORR). In addition to providing safe and compliant storage, this subproject consolidates MLLW consistent with the objectives and schedules of the ER Projects and closes and transitions unneeded storage facilities to other mission programs. The end state storage capacity to be provided by this subproject in support of a

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compliant steady-state condition for MLLW management will be sufficient to accumulate mixed waste generation for one year.

The Balance of Inventory subproject dispositions legacy inventory and newly generated/received MLLW generators to reach and maintain a compliant steady-state condition for the following MLLW disposition tasks: Inventoried Wastewaters; ORR Incinerable Liquids; ORR Incinerable Solids; Out Of State (OOS) Incinerable Liquids; OOS Incinerable Solids; Labpacks; Light Ballasts & Crushed Bulbs; and Empty PCB/RCRA Waste Containers.

Inventoried Wastewaters includes the disposition of legacy waste inventory in FY99 and newly generated/received waste. If any MLLW wastewaters cannot go directly for treatment to any of the ORR treatment facilities, offsite treatment and disposal of these wastewaters is coordinated under this task. This task transfers to the Broad Spectrum subproject in FY 2000.

ORR Incinerable Liquids includes the treatment/disposition of ORR legacy waste inventory in FY99 and newly generated/received waste. ORR Incinerable Solids includes the treatment/disposition of ORR legacy waste inventory and newly generated/received waste. OOS Incinerable Liquids schedules the disposition of incinerable liquids waste transfers from out-of-state generators to the TSCA Incinerator. Only liquids which have been approved by the Tennessee Department of Environment and Conservation (TDEC) for receipt will be treated at the Toxic Substances Control Act Incinerator (TSCAI). OOS Incinerable Solids includes the disposition of incinerable solids waste transfers from out-of-state generators to the TSCAI. This task is scheduled to begin upon approval of TDEC for receipt and treatment of OOS solids. Treatment of ORR and OOS Incinerable Liquids and Solids performed at the TSCAI, through FY03 is included in PBS OR-411 ETPP Waste Operations. If commercial vendors perform treatment, this task provides all costs for treatment of ORR incinerable liquids and solids and disposition of secondary waste streams. The scopes of work under these tasks are scheduled to transition to the Broad Spectrum Disposition Subproject beginning in FY04, and Broad Spectrum subproject will provide the costs of commercial treatment and disposal. TSCAI Solids Equipment Removal & Modification completed the relocation of the TSCA Incinerator Recontainerization Operation from the K-306-4 Vault in the K-25 Building to the uranium-hexafluoride (UF6) autoclave area in the K-1423 Building in FY 1999.

Labpacks task includes sorting and repackaging of legacy Labpack waste in inventory, disposition of repackaged liquids, and transfer of repackaged solids to commercial hazardous waste treatment, on-site treatment, or the Broad Spectrum Disposition Subproject in FY00. Light Ballasts & Crushed Bulbs includes the treatment of crushed mixed fluorescent and incandescent light bulbs in storage as legacy waste at ETPP. Crushed mixed fluorescent and incandescent light bulbs at ETPP were staged, paperwork completed, and shipped off-site for treatment and disposal in FY99. Empty PCB/RCRA Waste Containers includes disposition of empty PCB waste containers and empty RCRA containers presently in storage at ETPP through recycle or reuse, in FY99 and FY00.

Broad Spectrum Disposition subproject dispositions legacy inventory and newly generated/received MLLW from the ORR to reach and maintain a complaint steady-state condition. The life cycle objective of this subproject is to treat and dispose of current legacy inventory plus MLLW. Waste is dispositioned through five separate treatment contracts with East Tennessee Materials and Energy Corporation (M&EC) and Waste Control Specialists (WCS) awarded under the Broad Spectrum procurement. To meet this objective a treatment plan will be developed and sufficient quantities of mixed waste characterized for treatment by vendors. This subproject includes the characterization cost of legacy waste assigned to this treatment process to meet enforceable agreement milestones in FY00 through FY03. This subproject manages the mixed waste treatment contracts for the treatment of ORR mixed waste and coordinate and facilitate use of the five mixed waste treatment contracts with other sites across the DOE-complex.

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The Broad Spectrum treatment plan to be developed in FY99, will describe the actions required to treat all waste streams in Table 3.4 of the STP and Table C of the ORR-PCB-FFCA. The treatment plan and schedule will be utilized to project the quantities of mixed waste to be characterized and treated annually. Site waste management support will be provided for the staging and loading of off-site shipments. Generator Services support will be provided to complete paperwork and coordination of shipments to off-site treatment facilities. The waste acceptance criteria established by the two vendors under the Broad Spectrum procurement will be applicable to a large percentage of the mixed waste inventory assigned to this project. Therefore, no scope is included for additional procurement activity for waste outside of the identified WAC. Waste characterization, certification and oversight for newly generated waste will be performed by the generators beginning in FY 2000. Characterization costs for validation of bulked waste is carried in this table for FY00 and beyond except for incinerable waste and contaminated wastewaters.

The Process Residues Disposition includes work elements for the following: West End Treatment Facility (WETF), Groundwater Treatment Facility/Liquid Storage Facility (GWTF/LSF), Central Pollution Control Facility (CPCF), Head End Treatment System (HETS), Central Neutralization Facility (CNF), and TSCA. The scope is to provide for the characterization as necessary, extraction from tanks, conditioning/treatment, packaging, verification, profiling, transportation and disposal of the following MLLW waste-streams. As stated earlier, all waste streams will be at steady state by FY2000 with the exception of the WETF sludge. WETF sludge Disposition includes approximately 4 million kgs of sludge from WETF tanks F8 (1.2 million kgs), F9 (1.3 million kgs), and F-13 (1.4 million kgs). Minimum requirements case would be to meet the STP volumes of 1.1 million kg removed from the remaining tanks in FY99 and 900,000 kgs per year in subsequent years through FY02.

Hazardous Waste Disposition

Hazardous Waste provides for the storage and disposition of Hazardous Waste on the Oak Ridge Reservation. The objective of the hazardous waste storage task is to provide safe, compliant and cost effective storage of hazardous waste across the ORR. Services are to be provided that such waste pickup for newly generated waste will occur at the designated collection areas. The hazardous waste disposition project provides for the treatment and disposal of hazardous waste, through on-site and commercial services, including services for packaging, profiling, scheduling of shipments, transport, treatment and disposal of newly generated hazardous waste within 90 days of generation. It is assumed that the quantity of waste to be managed will not exceed 115,000 pounds of newly generated and 35,000 pounds of legacy RCRA regulated waste per year. TSCA regulated waste will not exceed 200,000 pounds of newly generated waste and 25,000 pounds of legacy TSCA regulated waste per year. Non RCRA / TSCA waste will not exceed 50,000 pounds per year. Multiple subcontract awards may be provided to accommodate low costs as well as timely removal of waste from the sites. Options to be offered and exercised during the overall planning period include a turnkey operation on-site to the off-site facilities.

Transuranic Waste Disposition

TRU waste is defined as waste containing greater than 100 nCi/gm of the radioisotopes that are heavier than uranium and with half-lives greater than 20 years. Oak Ridge has both RH- and CH-TRU containerized debris waste. In addition Oak Ridge has RH-TRU sludges in the sediments of LLW tanks. The TRU waste is amongst the most toxic waste that is stored in Oak Ridge. TRU waste disposition activities include collection and transportation of newly generated waste to storage and storage of the newly generated and legacy waste. The waste will be removed from storage and transported to the TRU Waste Treatment Facility (TWTF) for treatment and disposition to WIPP beginning in 2003. This facility is being provided through a privatization contract with the Foster Wheeler Environmental Company and is covered in PBS OR-364. General support of DOE in this contracting activity and the access road are in the scope of work that is addressed in this PBS. TRU sludges are also being mobilized and consolidated

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in a tank farm that will be transferred to Foster Wheeler Environmental Company for retrieval and processing. The TRU waste consolidation projects for RH TRU are using a pulsed jet mixing system from AEAT that was deployed with co-funding of Technology Development.

Solid TRU Disposition: The objection of this task is to deliver to the TWTP up to 4 casks per day of RH TRU and alpha-contaminated solid waste or up to 125 55 gal drum equivalents of CH transuranic and alpha contaminated solid waste per day. The TWTP will be designed to treat a variety of radioactive wastes for permanent disposal. The scope of this task includes the coordination, transport, delivery, receipt, tracking and recording of approximately 150 m3 of RH transuranic and alpha contaminated waste currently stored in vaults or buildings; approximately 400 m3 of RH transuranic and alpha contaminated waste (which will be exhumed from SWSA 5N by Environmental Restoration) from a CERCLA collection site to the TWTP; and approximately 1,000 m3 of CH transuranic and alpha contaminated waste currently stored in buildings or vaults to the TWTP. Also included are Repackaging and transport of waste, that cannot go to the TWTP, for offsite treatment.

Sludge Disposition: TRU Waste stored at the ORNL includes RH-TRU sludge stored in Tanks C-1 and C-2 at Bldg. 2531 and potentially collected in Tank W-35 at Bldg. 7856. The primary objective of this task is the consolidation of sludge in the MVST for follow-up treatment by Foster Wheeler. The Melton Valley Storage Tank-CI will store LLLW. Over time sludge will accumulate in the W-35 tank of the MVST-CI facility. Periodic removal and transfer to the MVSTs of that sludge will be required. Current plans are to have AEAT design a Fluidic PulseJet system for W-35.

The objective of Special Projects task is to provide for the technical implementation and integration of the National TRU Program initiatives and requirements related to the disposal of TRU waste, including technology deployment, waste certifications and audits.

TRU Treatment Contract Support: The objective of this task is to assist DOE in fulfilling their obligations as specified in the contract to the TWTP Contractor Foster Wheeler. Privatization Phase I technical support work includes modifications to the MVST required to support Phase II of the contract, the preparation of the Environmental Impact Study, and the design/build subcontract for the construction of the road, fencing and utilities for the TWTP.

Transuranic Waste Storage includes the continuous routine collection and transport of both CH- and RH-TRU waste generated by various programs throughout ORNL and routine operations and maintenance of the CH- and RH-TRU Waste storage facilities to ensure personnel and facilities are available to store the legacy wastes.

Project Status in FY 2006:

Legacy MLLW will be dispositioned by the end of FY04. The end of FY 2006 will mark the disposition of the stored inventory of transuranic waste on the Oak Ridge Reservation (ORR). The inventory of low-level waste will be fully dispositioned by the end of FY 2007. The Legacy Waste Project will have fully implemented the goal of dispositioning newly generated waste directly from the point of generation to final disposition. Minimum storage capacity will be maintained for special case waste and accumulation areas.

Post-2006 Project Scope:

Only some of the inventory of low-level waste will remain after 2006. It is scheduled to be dispositioned by the end of FY 2007. The inventory of stored low-level waste will be disposed either on-site or off-site using both DOE and commercial disposal capacity. The Legacy Waste Project will

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provide services to generators to facilitate disposition of waste within 90-days after generation, as appropriate. The Legacy Waste Project will maintain the ORR Disposal Certification programs for both DOE and Commercial disposal capacity. Former Legacy Waste Project treatment, storage and disposal facilities will be turned over to Environmental Restoration Watershed Projects for decontamination and decommissioning after appropriate Resource Conservation and Recovery Act (RCRA) closure or to non-EM generators. This transition is targeted for completion in FY 2008.

Project End State

The Legacy Project mission will be complete. Programs to safely and expeditiously manage newly generated waste will be turned over to generator organizations at Y-12, ORNL and ETPP.

Cost Baseline Comments:

The DOE EM Life Cycle Baseline that was recently issued in draft form is the cost basis for the PBS. Following development of scope statements, several methods were used for creating the cost estimates in the Life Cycle Baseline: use of existing estimates and use of unit-price estimates: 1. Unit-Price Estimates (Parametric)- Unit-price estimates, which are typically derived from historical cost data and are based on cost estimating relationships, were also used. These unit prices include all activities associated with the receipt, characterization, shipment preparation, transportation, and disposal. Unit costs for transportation and disposal were based on existing contracts where available. Activity based cost estimates were used for shipment preparation unit costs along with Project Management functions. Characterization costs are based on historical costs.

Safety & Health Hazards:

The most common environmental, safety, and health issues are associated with the handling of waste and materials that are radiologically and/or chemically contaminated. Activities include hazards such as the operation of heavy equipment, manually handling the material (ergonomics), pinch points, slips - trips - and falls, and the use of hand and portable power tools. Mishandling of these materials may cause an environmental insult such as excess emissions or a release.

These activities are controlled by developing procedures that are in compliance with applicable permits and laws. In addition, the Work Planning and Permit Information System (WPPIS), pre-job briefings, Radiological Work Permits (RWP), and an Integrated Safety Management System are used as work control documents. Employee feedback is a key element in all of these work control processes.

Safety & Health Work Performance:

Conduct of Operations and Integrated Safety Management are incorporated into project start-up activities through the Readiness Evaluation procedure. Based on the hazards categorization, a graded approach ranging from an Internal Field Evaluation to a full Operational Readiness Review is prescribed. A project team consisting of multiple disciplines evaluates the work process and associated hazards, and completes a preliminary hazards assessment. The hazards assessment procedure provides the tool for a systematic and consistent evaluation of industrial, radiological, nuclear and environmental hazards. The disciplines represented on the team include operations, environmental compliance, industrial safety, radiological control, nuclear criticality safety, design engineering, and others as needed.

All operations are conducted in accordance with approved procedures which are implemented for defined scope of work using the WPPIS. WPPIS packages are reviewed and approved by health and safety disciplines prior to implementation.

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Daily pre-shift briefs and debriefs are used as forums to identify and discuss safety issues and concerns identified in the field. Additionally, routine "Walk Abouts" are conducted by project staff to identify hazards and safety concerns. A Safety Advocate program is implemented to provide operations personnel an avenue to identify, report and correct, if possible, their safety concerns. Routine monitoring (airborne and surface contamination) of the work environment is conducted by radiological control personnel and reported to line management to assist in measuring and improving work and housekeeping practices. Other standard safety parameters, such as first aid cases, lost time incidents and OSHA reportable incidents are monitored and promulgated monthly by project.

PBS Comments:

Baseline Validation Narrative:

The Oak Ridge Operations Office Environmental Management Life Cycle Baseline (LCB) was submitted by the Managing and Integrating Contractor, Bechtel Jacobs Company LLC, to DOE-ORO on April 1, 1999. The final draft LCB will be submitted to DOE-ORO on June 1, 1999 after formal receipt and incorporation of comments. A validation of the baseline is in process using an independent contractor to DOE-ORO. The validation will be ongoing until complete and the final validation report is scheduled to be issued on June 25, 1999.

General PBS Information

Project Validated?	Date Validated:
Has Headquarters reviewed and approved project?	No
Date Project was Added:	3/10/1999
Baseline Submission Date:	7/1/1999
FEDPLAN Project?	Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	Y	N	N	N	Y	Y	Y

Project Identification Information

DOE Project Manager:	Clayton Gist
DOE Project Manager Phone Number:	423-576-6821
DOE Project Manager Fax Number:	423-576-6074
DOE Project Manager e-mail address:	gistcs@oro.doe.gov
Is this a High Visibility Project (Y/N):	

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Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	928,036	6,044,025	6,972,061	66,212	67,838	85,710	92,922	76,277	83,515	123,619	106,501	102,917	123,377	89,528	70,380	
PBS Baseline (constant 1999 dollars)	874,436	2,482,184	3,356,620	66,212	67,838	85,710	92,922	76,277	81,797	118,586	100,064	94,707	111,200	79,032	60,851	
PBS EM Baseline (current year dollars)	810,828	190,956	1,001,784	66,212	67,838	85,710	92,922	76,277	83,515	108,785	90,526	85,421	101,169	65,355	47,858	
PBS EM Baseline (constant 1999 dollars)	768,268	149,714	917,982	66,212	67,838	85,710	92,922	76,277	81,797	104,356	85,054	78,607	91,184	57,693	41,378	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	55,957	51,750	47,920	48,441	257,828	286,133	317,466	352,230	390,800	433,594	481,074	533,754	592,202	657,050	728,999	808,827
PBS Baseline (constant 1999 dollars)	47,386	42,922	38,928	38,542	192,822	192,870	192,871	192,872	192,871	192,871	192,871	192,872	192,872	192,872	192,871	192,871
PBS EM Baseline (current year dollars)	28,538	23,805	19,168	18,892	100,553	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	24,167	19,744	15,571	15,031	75,201	0	0	0	0	0	0	0	0	0	0	0

Non-EM Costs included in the Cost Baseline

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
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	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Non-EM Category: Newly Generated													
DOE - Unspecified Office											49	54	60
Environmental Management					12	15	17	18	27	32			
	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
Non-EM Category: Newly Generated													
DOE - Unspecified Office	61	61	100	100	100	100	100	100	100	100	100	100	100
Environmental Management													

Baseline Escalation Rates

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	0.00%	0.00%	0.00%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 9/30/2070

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	67,838	Actual 1998 Cost:	92,922
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-160,760	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):		-4,341

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Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): -165,101

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

Cost Growth Associated with Scope Previously Reported (+):

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: -165,101

Additional Amount to Reconcile (+): 931,161

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **766,060**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
ORR Legacy Waste - Project Start	OR151-001		10/1/1996								
Issue the ORR Site Treatment Plan Semi-annual Progress Report to TDEC	OR151-002		10/30/1998	10/30/1998			Y				
Issue the Annual Update of the ORR Site Treatment Plan to TDEC	OR151-003		10/30/1998	10/30/1998			Y				
Certify and ship the Y-12 labpacks in Table 3.4 that are determined to have no-added radioactivity	OR151-004		12/31/1998	12/31/1998			Y				
Complete treatment of crushed bulbs in Table 3.4	OR151-005		12/31/1998	12/31/1998			Y				
Provide a status report on the project by March 31, 1999 and update on September 30, 1999	OR151-006		3/31/1999	3/31/1999			Y				
Complete treatment of incinerable solid mixed waste in	OR151-007		8/31/1999	8/31/1999			Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Table 3.2 on the Oak Ridge Reservation											
Complete treatment of oils and liquids in Table 3.2 on the Oak Ridge Reservation	OR151-008		8/31/1999	8/31/1999			Y				
Provide a status report on the project by March 31, 1999 and update on September 30, 1999	OR151-009		9/30/1999	9/30/1999			Y				
Complete treatment of 1,100,000 kg of WETF sludge listed in Table 3.3	OR151-010		9/30/1999	9/30/1999			Y				
Complete treatment of 1,400,000 kg of unstabilized pond sludge listed in Table 3.3	OR151-011		9/30/1999	9/30/1999			Y				
Complete treatment of aqueous waste inventory listed in Table 3.1	OR151-012		9/30/1999	9/30/1999			Y				
Complete treatment of all pre-FY1999 CNF Sludge listed in Table 3.3	OR151-013		9/30/1999	9/30/1999			Y				
Submit to TDEC a plan and schedule for completing shipment for treatment or disposal in Table 3.4	OR151-014		9/30/1999	9/30/1999			Y				
Submit to TDEC a summary report on the First Article of Testing for Category C	OR151-015		9/30/1999	9/30/1999			Y				
BROAD SPECTRUM DISPOSITION-SUBMIT FY 1999 STP REVISION TO REGULATORS	OR151-016		10/29/1999	10/30/1999			Y				
BROAD SPECTRUM DISPOSITION-STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-017		10/29/1999	10/30/1999			Y				
BROAD SPECTRUM DISPOSITION-STP - CERTIFY & SHIP ETP LAB PACKS IN TABLE 3.4	OR151-018		12/30/1999	12/30/1999			Y				
TRU TREATMENT CONTRACT SUPPORT-STP, Provide a Summary Report of NEPA Analysis	OR151-019		3/31/2000	3/31/2000			Y				
Complete treatment of 1,400,000 kg of unstabilized pond sludge listed in Table 3.3	OR151-020		9/30/2000	9/30/2000			Y				
MLLW PROCESS RESIDUES DISPOSITION - STP-	OR151-021		9/29/2000	9/30/2000			Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Comp Treatment of 900,000 kgs WETF Sludge											
BROAD SPECTRUM DISPOSITION - STP-SHIP FOR TREAT/DISP 750,000 kg MW IN TBL 3.4	OR151-022		9/29/2000	9/30/2000			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-023		10/30/2000	10/30/2000			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2000 STP REVISION TO REGULATORS	OR151-024		10/30/2000	10/30/2000			Y				
Complete treatment of 1,400,000 kg of unstabilized pond sludge listed in Table 3.3	OR151-025		9/30/2001	9/30/2001			Y				
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-026		9/28/2001	9/30/2001			Y				
BROAD SPECTRUM DISPOSITION - STP-COMP TRTMNT OF ALL LAB PACKS IN TABLE 3.4	OR151-027		9/28/2001	9/30/2001			Y				
BROAD SPECTRUM DISPOSITION - STP-SHIP FOR TREAT/DISP 1,500,000 kg MW; Tbl 3.4	OR151-028		9/28/2001	9/30/2001			Y				
TRU TREATMENT CONTRACT - STP Provide TDEC with PMP with Treat/Ship Sched	OR151-029		9/28/2001	9/30/2001			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-030		10/30/2001	10/30/2001			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2001 STP REVISION TO REGULATORS	OR151-031		10/30/2001	10/30/2001			Y				
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-032		9/30/2002	9/30/2002			Y				
Complete treatment of remaining inventory of unstabilized pond sludge listed in Table 3.3	OR151-033		9/30/2002	9/30/2002			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-034		10/30/2002	10/30/2002			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY	OR151-035		10/30/2002	10/30/2002			Y				

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2002 STP REVISION TO REGULATORS											
TRU TREATMENT CONTRACT - STP Init Shipment of RH-TRU Sludges to WIPP	OR151-036		1/29/2003	1/29/2003			Y				Y
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-037		9/30/2003	9/30/2003			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-038		10/30/2003	10/30/2003			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2003 STP REVISION TO REGULATORS	OR151-039		10/30/2003	10/30/2003			Y				
TRU TREATMENT CONTRACT - STP Initiate Processing of CH- and RH-TRU Solids	OR151-040		1/30/2004	1/30/2004			Y				Y
TRU TREATMENT CONTRACT - STP Init Ship Processed CH-/RH-TRU Solid to WIPP	OR151-041		4/30/2004	4/30/2004			Y				Y
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-042		9/30/2004	9/30/2004			Y				
TRU TREATMENT CONTRACT - STP Complete Shipmnt of Stabilized RH-TRU Sludge	OR151-043		9/30/2004	9/30/2004			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-044		10/29/2004	10/30/2004			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2004 STP REVISION TO REGULATORS	OR151-045		10/29/2004	10/30/2004			Y				
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-046		9/30/2005	9/30/2005			Y				
TRU TREATMENT CONTRACT - STP Init Ship Processed CH-TRU Solid to WIPP	OR151-047		9/30/2005	9/30/2005			Y				Y
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-048		10/28/2005	10/30/2005			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY	OR151-049		10/28/2005	10/30/2005			Y				

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2005 STP REVISION TO REGULATORS											
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-050		9/29/2006	9/30/2006			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2006 STP REVISION TO REGULATORS	OR151-051		10/30/2006	10/30/2006			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-052		10/30/2006	10/30/2006			Y				
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-053		9/28/2007	9/30/2007			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-054		10/30/2007	10/30/2007			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2007 STP REVISION TO REGULATORS	OR151-055		10/30/2007	10/30/2007			Y				
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of Remaining WETF Sludge	OR151-056		9/30/2008	9/30/2008			Y				
TRU TREATMENT CONTRACT - STP Init Ship Processed RH-TRU Solid to WIPP	OR151-057		9/30/2008	9/30/2008			Y				Y
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-057		10/30/2008	10/30/2008			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2008 STP REVISION TO REGULATORS	OR151-058		10/30/2008	10/30/2008			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-059		10/30/2009	10/30/2009			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2009 STP REVISION TO REGULATORS	OR151-060		10/30/2009	10/30/2009			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-061		10/30/2010	10/30/2010			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY	OR151-062		10/30/2010	10/30/2010			Y				

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2010 STP REVISION TO REGULATORS											
ORR Legacy Waste Project Complete	OR151-063		9/30/2070	9/30/2070							
By September 30, 1999, define outyear disposal goals for Special Case Waste	OR151-064		9/30/1999					Y			
Complete safety documentation for the Y-12 LLW Compactor and Above Grade Storage Facility	OR151-065		9/30/1999					Y			
By September 30, 1999, complete the Auditable Safety Analysis for the Old Salvage Yard	OR151-066		9/30/1999					Y			
By September 30, 1999, establish offsite disposal options for LLW	OR151-067		9/30/1999					Y			
By September 30, 2002, dispose PWTP inventory.	OR151-068		9/30/2002					Y			
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-069		4/30/1999	4/30/1999			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-070		4/28/2000	4/30/2000			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-071		4/30/2001	4/30/2001			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-072		4/30/2002	4/30/2002			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-072		4/30/2003	4/30/2003			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-073		4/30/2004	4/30/2004			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-074		4/29/2005	4/30/2005			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-075		4/28/2006	4/30/2006			Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-076		4/30/2007	4/30/2007			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-077		4/30/2008	4/30/2008			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-078		4/30/2009	4/30/2009			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-079		4/30/2010	4/30/2010			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-080		4/30/2011	4/30/2011			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-081		4/30/2012	4/30/2012			Y				
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-082		10/28/2011	10/30/2011			Y				
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2011 STP REVISION TO REGULATORS	OR151-083		10/28/2011	10/30/2011			Y				
BROAD SPECTRUM DISPOSITION - STP-COMP TREATMENT OF ALL MIXED WASTE IN Tbl 3.4	OR151-080		9/28/2012	9/30/2012			Y				
ORR Legacy Waste Mission Completion	OR151-81		9/30/2070								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ORR Legacy Waste - Project Start	OR151-001			Y							
Issue the ORR Site Treatment Plan Semi-annual Progress Report to TDEC	OR151-002										Issue the ORR Site Treatment Plan Semi-annual Progress Report to TDEC.
Issue the Annual Update of the	OR151-003										Issue the Annual Update of the ORR

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ORR Site Treatment Plan to TDEC											Site Treatment Plan to TDEC.
Certify and ship the Y-12 labpacks in Table 3.4 that are determined to have no-added radioactivity	OR151-004										By December 31, 1998, certify and ship the lab packs at Y-12 in Table 3.4 that are determined to have no-added radioactivity
Complete treatment of crushed bulbs in Table 3.4	OR151-005										By December 31, 1998, complete treatment of crushed bulbs in Table 3.4
Provide a status report on the project by March 31, 1999 and update on September 30, 1999	OR151-006										Provide a status report on the transuranic waste project by March 31, 1999 and update on September 30, 1999.
Complete treatment of incinerable solid mixed waste in Table 3.2 on the Oak Ridge Reservation	OR151-007										By August 31, 1999, complete treatment of incinerable solid mixed waste in Table 3.2 on the Oak Ridge Reservation (proposed)
Complete treatment of oils and liquids in Table 3.2 on the Oak Ridge Reservation	OR151-008										By August 31, 1999, complete treatment of the 7830A oils (MWIR No. M2302), the plutonium-contaminated liquids (MWIR No. 2421), the classified liquid waste and the liquid waste presenting safety hazards in Table 3.2 on the Oak Ridge Reservation (proposed)
Provide a status report on the project by March 31, 1999 and update on September 30, 1999	OR151-009										Provide a status report on the transuranic waste project by March 31, 1999 and update on September 30, 1999.
Complete treatment of 1,100,000 kg of WETF sludge listed in Table 3.3	OR151-010										By September 30, 1999, complete treatment of 1,100,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Complete treatment of 1,400,000 kg of unstabilized pond sludge listed in Table 3.3	OR151-011										By September 30, 1999, complete treatment of 1,400,000 kg of unstabilized pond sludge (MWIR No. M1318) listed in Table 3.3
Complete treatment of aqueous waste inventory listed in Table 3.1	OR151-012										By September 30, 1999, complete treatment of aqueous waste inventory listed in Table 3.1 and continue treatment of currently generated waste.
Complete treatment of all pre-FY1999 CNF Sludge listed in Table 3.3	OR151-013										By September 30, 1999, complete treatment, if necessary, of all pre-FY1999 CNF sludge (MWIR No. M1301) listed in Table 3.3.
Submit to TDEC a plan and schedule for completing shipment for treatment or disposal in Table 3.4	OR151-014										By September 30, 1999, submit to TDEC a plan and schedule for completing shipment for treatment or disposal of mixed waste in Table 3.4.
Submit to TDEC a summary report on the First Article of Testing for Category C	OR151-015										FY1999, within 45 days of completion, Submit to TDEC a summary report on the First Article of Testing (FAT) for Category C of the Broad Spectrum Contracts.
BROAD SPECTRUM DISPOSITION-SUBMIT FY 1999 STP REVISION TO REGULATORS	OR151-016										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION-STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-017										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
BROAD SPECTRUM	OR151-018										By December 31, 1999, certify and

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
DISPOSITION-STP - CERTIFY & SHIP ETTP LAB PACKS IN TABLE 3.4											ship the lab packs at ETTP in Table 3.4 that are determined to have no-added radioactivity
TRU TREATMENT CONTRACT SUPPORT-STP, Provide a Summary Report of NEPA Analysis	OR151-019										By March 31, 2000, provide a summary report of NEPA analysis for transuranic waste.
Complete treatment of 1,400,000 kg of unstabilized pond sludge listed in Table 3.3	OR151-020										By September 30, 2000, complete treatment of 1,400,000 kg of unstabilized pond sludge (MWIR No. M1318) listed in Table 3.3
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-021										By September 30,2000, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3
BROAD SPECTRUM DISPOSITION - STP-SHIP FOR TREAT/DISP 750,000 kg MW IN TBL 3.4	OR151-022										By September 30, 2000, ship for treatment or disposal 750,000 kg of mixed waste in Table 3.4
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-023										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2000 STP REVISION TO REGULATORS	OR151-024										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
Complete treatment of 1,400,000 kg of unstabilized pond sludge listed in Table 3.3	OR151-025										By September 30, 2001, complete treatment of 1,400,000 kg of unstabilized pond sludge (MWIR No. M1318) listed in Table 3.3
MLLW PROCESS RESIDUES	OR151-026										By September 30, 2001, complete

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge											treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3
BROAD SPECTRUM DISPOSITION - STP-COMP TRTMNT OF ALL LAB PACKS IN TABLE 3.4	OR151-027										By September 30, 2001, complete treatment of all remaining lab packs in Table 3.4
BROAD SPECTRUM DISPOSITION - STP-SHIP FOR TREAT/DISP 1,500,000 kg MW; Tbl 3.4	OR151-028										By September 30, 2001, ship for treatment or disposal 1,500,000 kg of mixed waste in Table 3.4.
TRU TREATMENT CONTRACT - STP Provide TDEC with PMP with Treat/Ship Sched	OR151-029										By September 30, 2001, provide TDEC with the project management plan for transuranic waste complete with treatment and shipment schedules
BROAD SPECTRUM DISPOSITION - STP SEMI- ANNUAL PROGRESS REPORT TO REGULATORS	OR151-030										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2001 STP REVISION TO REGULATORS	OR151-031										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-032										By September 30,2002, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3
Complete treatment of remaining inventory of unstabilized pond sludge listed in Table 3.3	OR151-033										By September 30, 2002, complete treatment of remaining inventory of unstabilized pond sludge (MWIR M1318) listed in Table 3.3.

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BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-034										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2002 STP REVISION TO REGULATORS	OR151-035										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
TRU TREATMENT CONTRACT - STP Init Shipment of RH-TRU Sludges to WIPP	OR151-036										By January 29, 2003, initiate shipment of stabilized RH-TRU sludges to WIPP.
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-037										By September 30, 2003, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-038										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2003 STP REVISION TO REGULATORS	OR151-039										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
TRU TREATMENT CONTRACT - STP Initiate Processing of CH- and RH-TRU Solids	OR151-040										By January 30, 2004, initiate processing of CH- and RH-TRU solids.
TRU TREATMENT CONTRACT - STP Init Ship Processed CH-/RH-TRU Solid to WIPP	OR151-041										By April 30, 2004 initiate shipment of processed CH- and RH-TRU solids to WIPP.

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-042										By September 30, 2004, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3
TRU TREATMENT CONTRACT - STP Complete Shipmnt of Stabilized RH-TRU Sludge	OR151-043										By September 30, 2004, complete shipment of stabilized RH-TRU sludges.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-044										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2004 STP REVISION TO REGULATORS	OR151-045										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-046										By September 30, 2005, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3
TRU TREATMENT CONTRACT - STP Init Ship Processed CH-TRU Solid to WIPP	OR151-047										By September 30, 2005, complete shipment of CH-TRU solids to WIPP.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-048										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2005 STP REVISION TO REGULATORS	OR151-049										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-050										By September 30, 2006, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2006 STP REVISION TO REGULATORS	OR151-051										Issue the Annual Update of the ORR Site Treatment Plant to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-052										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of 900,000 kgs WETF Sludge	OR151-053										By September 30, 2007, complete treatment of 900,000 kg of WETF sludge (MWIR No. M3305) listed in Table 3.3.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-054										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2007 STP REVISION TO REGULATORS	OR151-055										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
MLLW PROCESS RESIDUES DISPOSITION - STP-Comp Treatment of Remaining WETF Sludge	OR151-056										By September 30, 2008, complete treatment of remaining WETF sludge (MWIR No. M3305) listed in Table 3.3.
TRU TREATMENT CONTRACT - STP Init Ship Processed RH-TRU Solid to WIPP	OR151-057										By September 20, 2008, complete shipment of RH-TRU solids to WIPP.

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-057										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2008 STP REVISION TO REGULATORS	OR151-058										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-059										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2009 STP REVISION TO REGULATORS	OR151-060										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-061										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2010 STP REVISION TO REGULATORS	OR151-062										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
ORR Legacy Waste Project Complete	OR151-063				Y						
By September 30, 1999, define outyear disposal goals for Special Case Waste	OR151-064										By September 30, 1999, define outyear disposal goa
Complete safety documentation for the Y-12 LLW Compactor and	OR151-065										By September 30, 1999, complete safety documentation for the Y-12

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Above Grade Storage Facility											LLW Compactor and Above Grade Storage Facility.
By September 30, 1999, complete the Auditable Safety Analysis for the Old Salvage Yard	OR151-066										By September 30, 1999, complete the Auditable Safety Analysis for the Old Salvage Yard.
By September 30, 1999, establish offsite disposal options for LLW	OR151-067										By September 30, 1999, establish offsite disposal options for LLW.
By September 30, 2002, dispose PWTW inventory.	OR151-068										
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-069										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-070										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-071										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-072										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-072										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-	OR151-073										Issue the ORR Site Treatment Plan Semiannual Progress Report to

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ANNUAL PROGRESS REPORT TO REGULATORS											TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-074										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-075										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-076										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-077										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-078										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-079										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-080										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM	OR151-081										Issue the ORR Site Treatment Plan

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS											Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - STP SEMI-ANNUAL PROGRESS REPORT TO REGULATORS	OR151-082										Issue the ORR Site Treatment Plan Semiannual Progress Report to TDEC.
BROAD SPECTRUM DISPOSITION - SUBMIT FY 2011 STP REVISION TO REGULATORS	OR151-083										Issue the Annual Update of the ORR Site Treatment Plan to TDEC.
BROAD SPECTRUM DISPOSITION - STP-COMP TREATMENT OF ALL MIXED WASTE IN Tbl 3.4	OR151-080										By September 30, 2012, complete treatment of all mixed waste in Table 3.4.
ORR Legacy Waste Mission Completion	OR151-81					Y					

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
TRU														
Treatment	M3	2,039.17	205.33	2,244.50	0.00		0.00	0.00	0.00	0.00	0.00	0.00	335.61	1,011.7
TRU														
Storage	M3							1,961.30	2,001.60	2,156.20	2,171.20	2,186.20	1,865.59	868.8
TRU														
Ship. to WIPP	M3	658.97	933.12	1,592.09	0.00		0.00	0.00	0.00	0.00	0.00	0.00	81.49	347.8

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Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
MLLW														
Treatment	M3	13,445.80	0.00	13,445.80	0.00		0.00	2,781.80	3,870.90	2,565.40	2,128.20	1,524.00	575.50	0.00
MLLW														
Storage	M3							10,906.40	8,753.80	5,801.30	3,526.20	2,020.20	1,020.20	142.50
MLLW														
Comm. Disp.	M3	16,699.10	24,078.50	40,777.60	0.00		0.00	1,913.90	4,834.40	2,861.60	2,399.60	1,647.40	1,042.50	1,251.70
LLW														
Treatment	M3	4,021.57	6,678.25	10,699.82	0.00		0.00	1,398.00	45.40	0.00	114.20	101.50	699.00	756.40
LLW														
Storage	M3							40,667.75	46,655.30	54,129.27	41,376.12	29,543.07	21,412.37	12,902.70
LLW														
On-Site Disp.	M3	1,962.80	0.00	1,962.80	0.00		0.00	1,138.40	761.40	63.00				
LLW														
Comm. Disp.	M3	7,401.10	30,651.20	38,052.30	0.00		0.00	572.00	400.00	60.00	479.30	479.30	1,078.70	1,078.70
LLW														
Ship to DOE Disp.	M3	93,041.57	441,264.33	534,305.90	0.00		0.00	0.00	726.50	0.00	19,579.50	18,713.80	13,991.63	14,807.40
Tech.														
Deployed	Ntd	1.00	0.00	1.00						1.00				
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
TRU														
Treatment	M3	1,011.74	677.15	14.67	164.26	41.07								

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
TRU													
Storage	M3	868.85	210.00	200.33	41.07	0.00							
TRU													
Ship. to WIPP	M3	347.82	181.64	48.02	48.02	22.69	13.35	16.02	69.42	69.42	69.42	69.42	69.42
MLLW													
Treatment	M3	0.00											
MLLW													
Storage	M3	142.50	142.50	142.50	142.50	142.50	142.50	142.50	142.50	142.50	142.50	142.50	142.50
MLLW													
Comm. Disp.	M3	1,251.70	374.00	374.00	374.00	374.00	374.00	374.00	1,870.00	1,870.00	1,870.00	1,870.00	1,870.00
LLW													
Treatment	M3	756.40	792.17	114.90	101.45	277.60	101.60	101.60	508.00	508.00	508.00	508.00	508.00
LLW													
Storage	M3	12,902.77	7,565.75	245.10	246.10	78.10	86.10	94.10	134.10	0.00	0.00	0.00	0.00
LLW													
On-Site Disp.	M3												
LLW													
Comm. Disp.	M3	1,078.70	1,078.70	2,174.40	479.30	479.30	479.30	479.30	2,394.50	2,394.50	2,394.50	2,394.50	2,394.50
LLW													
Ship to DOE Disp.	M3	14,807.46	12,206.69	13,015.99	7,320.84	7,119.39	6,875.00	6,875.00	34,375.00	34,549.10	34,415.00	34,415.00	34,415.00
Tech.													
Deployed	Ntd												
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			

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Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
TRU										
Treatment	M3									2,244.50
TRU										
Storage	M3									
TRU										
Ship. to WIPP	M3	69.42	69.42	69.42	69.42	69.42	69.42	69.42		1,592.09
MLLW										
Treatment	M3									8,393.10
MLLW										
Storage	M3	142.50	142.50	142.50	142.50	142.50	142.50	0.00		
MLLW										
Comm. Disp.	M3	1,870.00	1,870.00	1,870.00	1,870.00	1,870.00	1,870.00	2,012.50		36,052.30
LLW										
Treatment	M3	508.00	508.00	508.00	508.00	508.00	508.00	508.00		9,256.42
LLW										
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
LLW										
On-Site Disp.	M3									63.00
LLW										
Comm. Disp.	M3	2,394.50	2,394.50	2,394.50	2,394.50	2,394.50	2,394.50	2,394.50		37,167.30
LLW										
Ship to DOE Disp.	M3	34,415.00	34,415.00	34,415.00	34,415.00	34,415.00	34,415.00	34,415.00		533,579.40
Tech.										
Deployed	Ntd									1.00

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Technology Needs

Site Need Code: ORWM-01
Site Need Name: Technique to Analyze Very Low Levels of Radioactivity in Discarded Chemicals

Focus Area Work Package ID: Focus Area Work Package:
Focus Area: Agree with Technology Link: Y
Benefits (Cost, Risk Reduction, Both): Cost

<u>Technologies</u>	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Site Need Code: ORWM-10
Site Need Name: Removal of RCRA Metals from Aqueous Waste

Focus Area Work Package ID: MW-08 Focus Area Work Package: Facilitating Deployment for Unique Wastes
Focus Area: MWFA Agree with Technology Link: Y
Benefits (Cost, Risk Reduction, Both): Cost

<u>Technologies</u>	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Mercury Contamination - Separate and Remove Mercury using Sorbent Process	0	
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Site Need Code: ORWM-17
Site Need Name: Characterization of Heterogeneous Waste

Focus Area Work Package ID: MW-05 Focus Area Work Package: Payload Enhancement for Transporting TRU Waste within Restrictive Regulatory Limits
Focus Area: MWFA Agree with Technology Link: Y
Benefits (Cost, Risk Reduction, Both): Both

<u>Technologies</u>	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Nondestructive Waste Assay Using Combined Thermal Epithermal Neutron Interrogation	0	
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Technology Needs

Characterization of Remote - Handled Waste Drums using Multi Detector Analysis System	0
Nondestructive Waste Assay Using Gamma-Ray Active and Passive Computed Tomography	0
NDA of Boxes Containing TRU Waste	0

Site Need Code: ORWM-24
Site Need Name: Better Methods for Monitoring Discharge Limits

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: ORWM-26
Site Need Name: Discrimination Between WIPP Defined TRU and Non-WIPP Defined Isotopes in TRU Waste

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: ORWM-23
Site Need Name: Treatment of Heterogeneous Waste
Focus Area Work Package ID: MW-07
Focus Area: MWFA
Focus Area Work Package: Alternatives to Incineration to Reduce Emission Hazards.
Agree with Technology Link: N
Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Stabilized Contaminates using Arrow-Pak Polymer Macroencapsulation

0

Technology Deployments

Deployment Year

Deployment Status

Planned

Forecast

Actual Date

Technology Name: Stabilized Contaminates using Arrow-Pak Polymer Macroencapsulation

Deployment Commitment 2000